CLAIMS

1.   A compressed data processing apparatus into which is input compressed data for which data restoration is performed by carrying out a first and a second decompression processing, the compressed data processing apparatus comprising:

a compressed data acquisition unit that acquires a plurality of the compressed data as an object for synthesis, a plurality of first decompression processing units that perform the first decompression processing with respect to each of the plurality of compressed data acquired by the compressed data acquisition unit; and

a synthesis unit that synthesizes a plurality of intermediate data that were decompressed by the plurality of first decompression processing units.

2.   The compressed data processing apparatus according to claim 1, which further comprises a second decompression processing unit that performs the second decompression processing with respect to intermediate data output from the synthesis unit.

3.   The compressed data processing apparatus according to claim 1, which further comprises a compression processing unit that performs compression processing as inverse transformation of the first decompression processing with respect to intermediate data output from the synthesis unit.

4.   The compressed data processing apparatus according to claim 1, which further comprises a weight assignment processing

unit that is provided at a stage prior to the synthesis unit and carries out weight assignment processing with respect to the plurality of intermediate data.

5.   The compressed data processing apparatus according to claim 1, wherein the compressed data is compressed audio data.

6.   The compressed data processing apparatus according to claim 4, wherein the compressed data is compressed audio data and the weight assignment processing is volume balance control processing.

7.   The compressed data processing apparatus according to claim 1, wherein the compressed data is compressed audio data in MPEG-1 audio format, audio data of each of a plurality of frequency bands is decompressed by the first decompression processing, and inverse frequency transformation is performed using the audio data of each of the plurality of frequency bands by the second decompression processing.

8.   The compressed data processing apparatus according to claim 1, wherein the second decompression processing is processing that enables synthesis together of data prior to processing equivalent to synthesis together of data after processing, and

the first decompression processing is processing that does not enable synthesis together of data prior to processing equivalent to synthesis together of data after processing.

9.   A compressed data processing apparatus into which is input compressed data for which data restoration is performed by carrying out a third decompression processing, characterized

in that the compressed data processing apparatus comprises a compressed data acquisition unit that acquires a plurality of the compressed data as an object for synthesis, a synthesis unit that synthesizes the plurality of compressed data acquired by the compressed data acquisition unit, and a third decompression processing unit that performs the third decompression processing for compressed data that has undergone synthesis that is output from the synthesis unit.

10. The compressed data processing apparatus according to claim 9, wherein the compressed data is compressed audio data.

11. A compressed data processing method of a compressed data processing apparatus comprising a compressed data acquisition unit that acquires a plurality of compressed data for which data restoration is carried out by performing a first and a second decompression processing, a plurality of first decompression processing units that perform the first decompression processing for each of the plurality of compressed data acquired by the compressed data acquisition unit, and a synthesis unit that synthesizes a plurality of intermediate data that were decompressed by the plurality of first decompression processing units, the method comprising the steps of:

acquiring a plurality of compressed data by means of the compressed data acquisition unit;

performing the first decompression processing for each of the acquired plurality of compressed data by means of the first decompression processing units; and

performing synthesis processing by means of the synthesis unit using a plurality of intermediate data that are obtained upon completion of the first decompression processing.

12. The method for processing compressed data according to claim 11, wherein the compressed data processing apparatus has a second decompression processing unit that performs the second decompression processing, and

wherein the method further comprises a step of performing the second decompression processing by means of the second decompression processing unit with respect to the intermediate data output from the synthesis unit.

13. The method for processing compressed data according to claim 11, wherein the compressed data processing apparatus has a compression processing unit that performs compression processing as inverse transformation of the first decompression processing, and

wherein the method further comprises a step of performing the compression processing by means of the compression processing unit with respect to the intermediate data output from the synthesis unit.

14. A computer-readable program for processing compressed data for making a computer function as:

a compressed data acquisition unit that acquires a plurality of compressed data for which data restoration is performed by carrying out a first and a second decompression processing;

a plurality of first decompression processing units that perform the first decompression processing for each of the plurality of compressed data acquired by the compressed data acquisition unit; and

a synthesis unit that synthesizes a plurality of intermediate data that were decompressed by the plurality of first decompression processing units,

to synthesize a plurality of compressed data.

15. The computer-readable program for processing compressed data according to claim 14, which is a program for making the computer further function as a second decompression processing unit that performs the second decompression processing for intermediate data output from the synthesis unit.

16. The computer-readable program for processing compressed data according to claim 14, which is a program for making the computer further function as a compression processing unit that performs compression processing as inverse transformation of the first decompression processing with respect to intermediate data output from the synthesis unit.